

**Subject:** Optimizing Vehicle Trim Height  
**Models Affected:** Chevrolet Suburban HD SUV  
**Model Year:** 2016 and beyond  
**Origination Date:** July 21, 2015  
**Revision Date:** N/A

## **ADVISORY:**

### **Condition/Concern:**

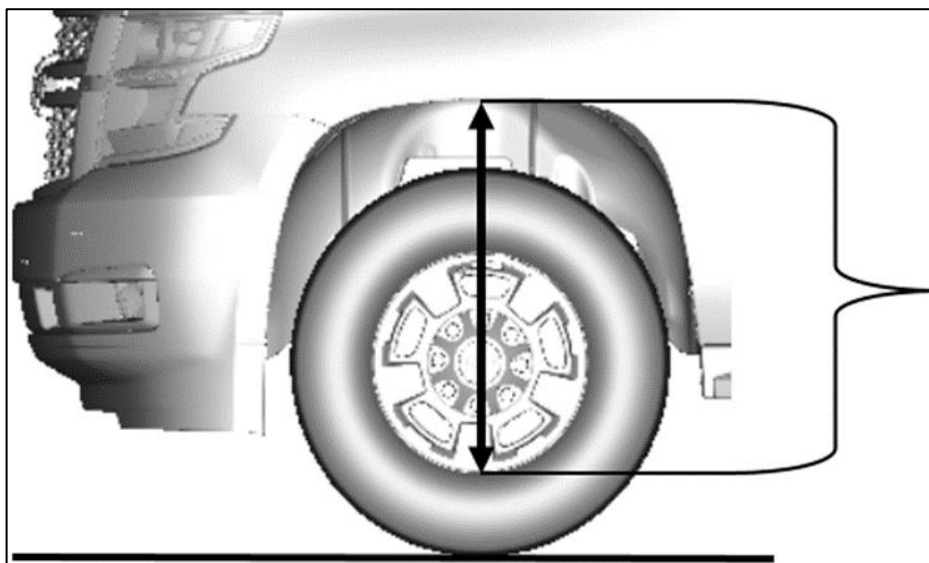
General Motors Heavy Duty Suburban vehicles are built to an initial specific trim height to allow for optimized ride and handling. Trim height is a predetermined measurement relating to vehicle ride height. Incorrect trim heights can cause the vehicle to bottom over bumps, damage to the suspension components, and symptoms similar to wheel alignment problems

### **Repair/Recommendation:**

To avoid a decrease in ride and handling performance, after a vehicle modification with increased vehicle curb weight, the following steps should be used.

Prior to vehicle modifications...

1. Ensure the vehicle is on a level surface, such as an alignment rack.
  - a. Set the tire pressures to the pressure shown on the Tire Placard label.
  - b. Ensure that the suspension is fully supporting the vehicle and is at rest and settled.
  - c. Ensure that the passenger and rear compartments are empty, except for the spare tire.
2. Remove wheel center cap.
3. Measure the "as received" vehicle trim heights from the bottom of the wheel to the top of the wheel opening as shown in figure 1.



Trim Height:  
("as received" value = "X"  
mm)

Figure 1

4. Modify vehicle as required. Drive the vehicle a short distance to allow the vehicle to settle and return to the rest position.

After vehicle modifications:

5. Repeat steps 1-3. If trim height has decreased (lowered) more than 8mm (.314") from that of the "as receive" height, the suspension must be readjusted using the steps outlined below. Refer to Figure 2.

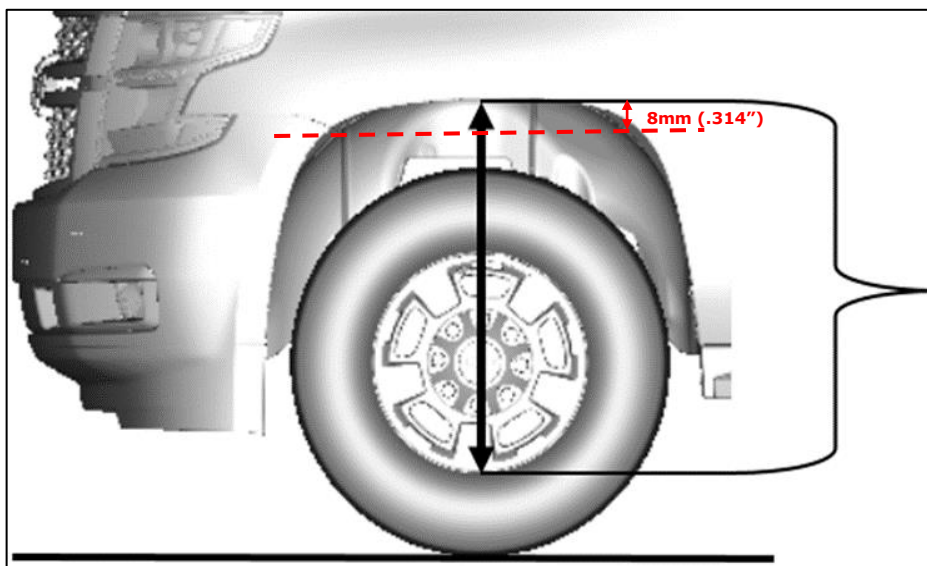


Figure 2

General Motors Upfitter Integration (<http://www.gmupfitter.com>)

### Vehicle Suspension Adjustment:

Use the following steps, if necessary, to adjust the vehicle height.

6. Raise vehicle using the frame. Ensure the front tires are off the ground.
7. Adjust trim height with torsion bar adjuster screws (both L & R) as shown in Figure 3. (Clockwise raises front of vehicle).
8. Lower the vehicle onto alignment plates and/or drive the vehicle a short distance to allow the vehicle to settle and return to the rest position.

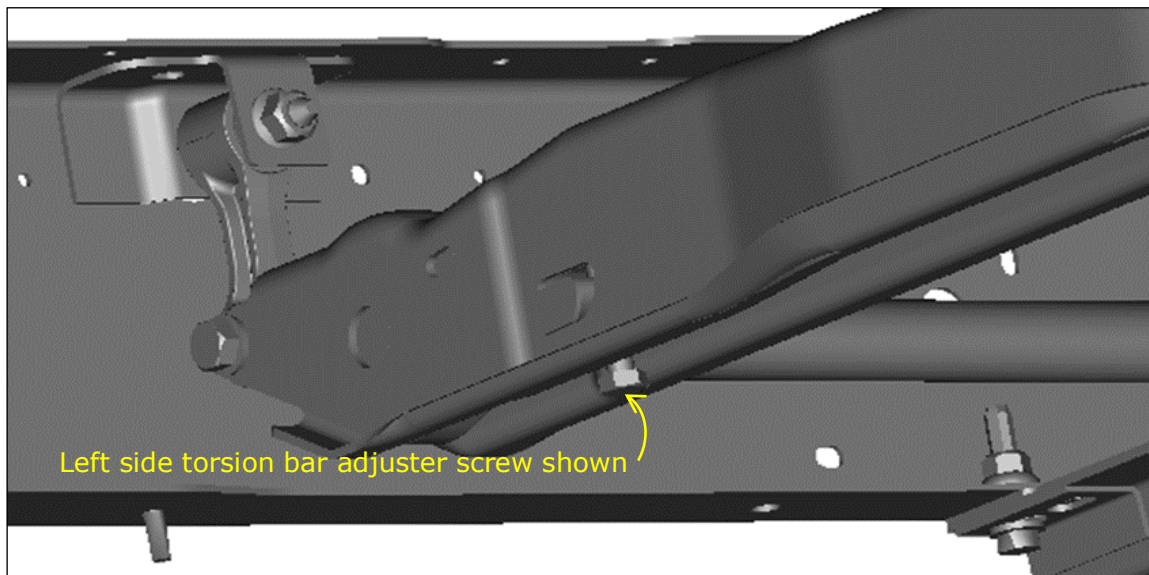


Figure 3

9. Repeat Steps 1-3. If vehicle height is now within 8mm (.314") of the "as received" height then continue to next step (10). If vehicle height is still more than 8mm (.314") lower than "as received" repeat steps 6 and 7 until the ride height is within the specification of not lower than 8mm (.314) of "as received".
10. Check Vehicle alignment and adjust as needed to GM Service Information specifications.
11. Re-install Center Wheel cap.